Fig. 1

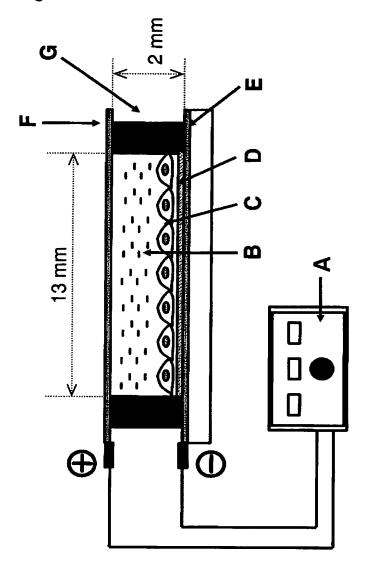


Fig. 2

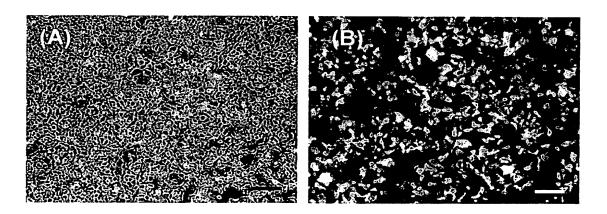


Fig. 3

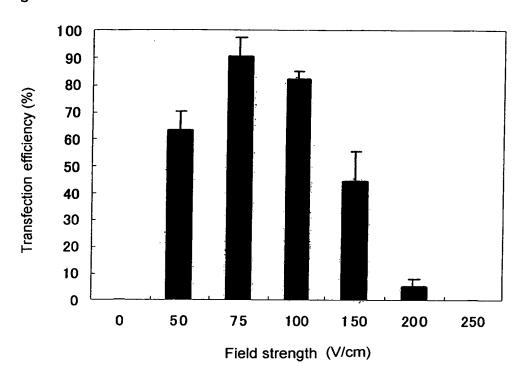
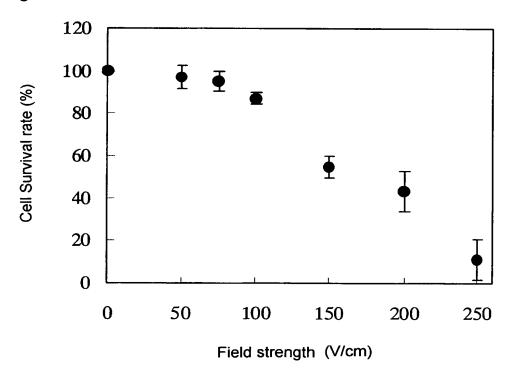


Fig. 4



5

Fig. 5

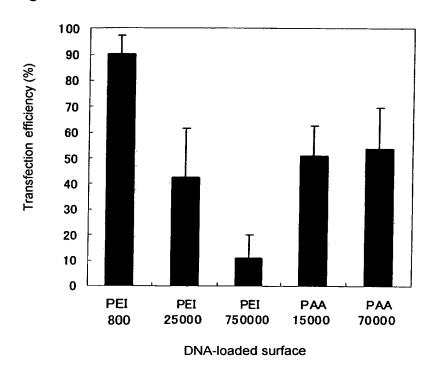
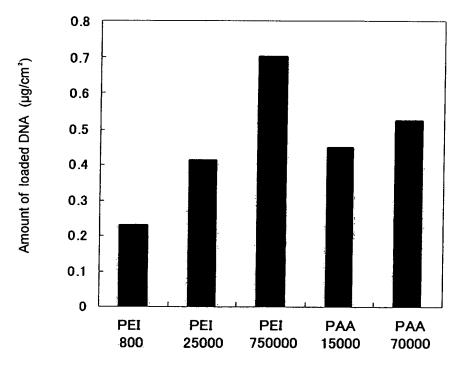


Fig. 6



DNA-loaded surface

Fig. 7

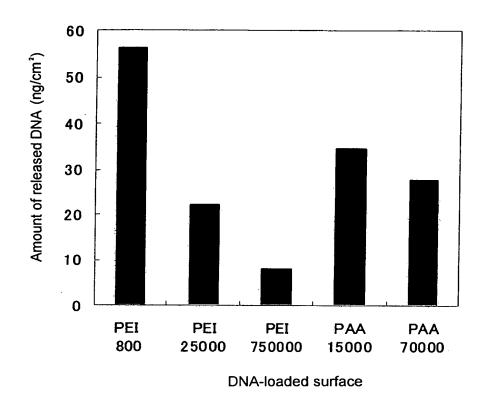


Fig. 8

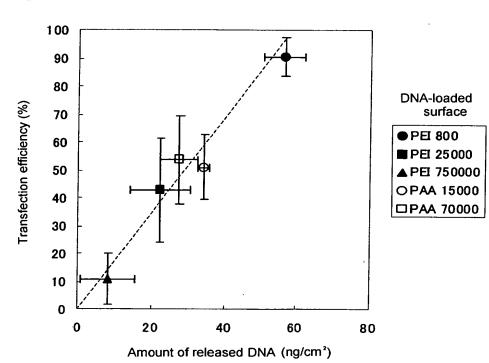
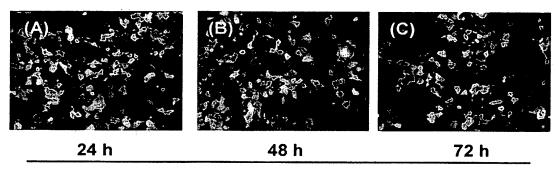
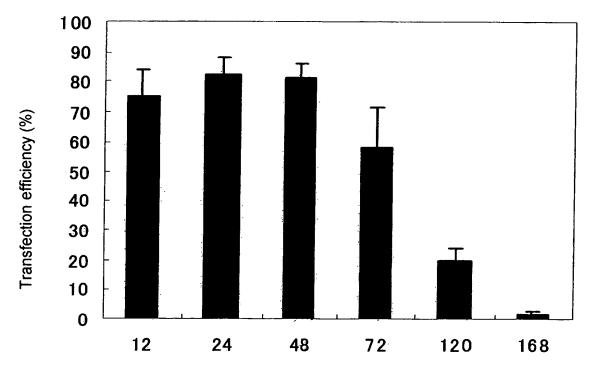


Fig. 9



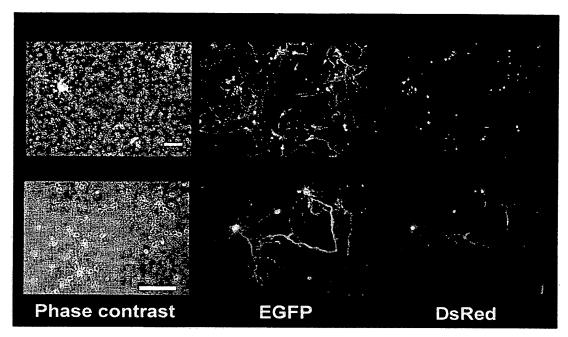
Cell incubation time (hour) before applying an electric pulse on the plasmid DNA-loaded electrode

#### 5 Fig. 10



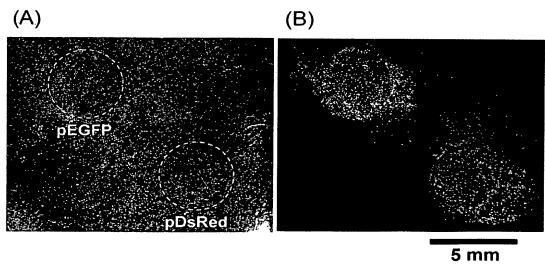
Cell incubation time (hour) before applying an electric pulse on the plasmid DNA-loaded electrode

Fig. 11



Scale bar 200 µm

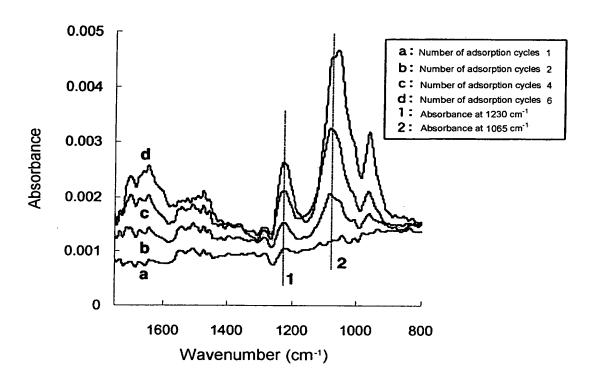
## 5 Fig. 12



Phase contrast

Fluorescence

Fig. 13



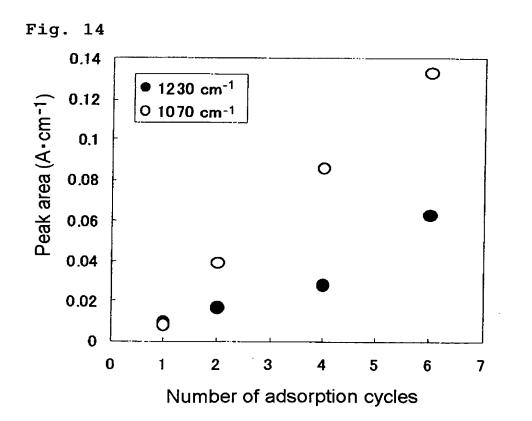
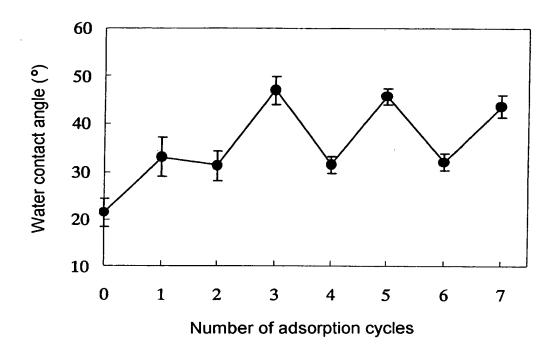


Fig. 15



5 Fig. 16

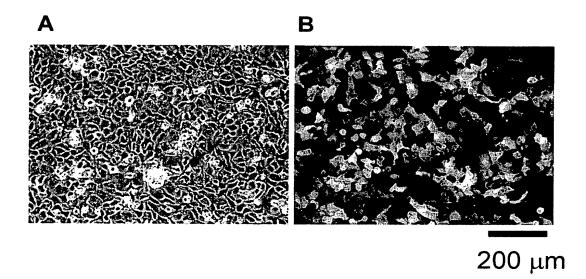


Fig. 17

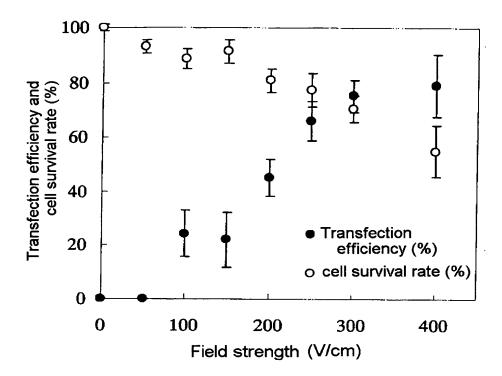


Fig. 18

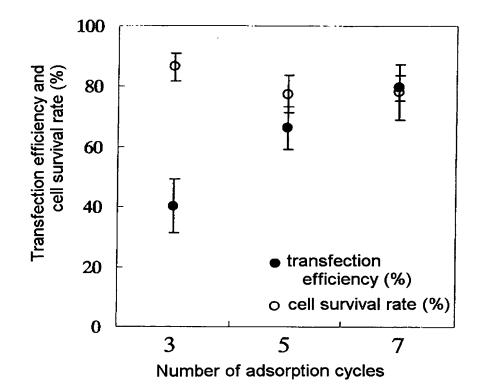


Fig. 19

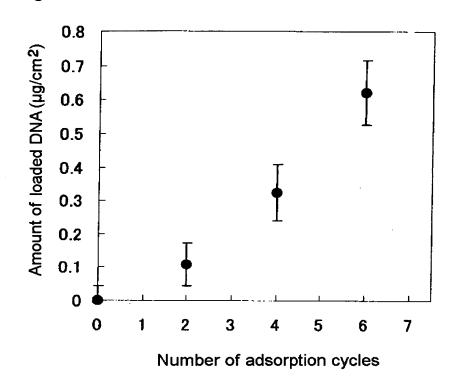


Fig. 20

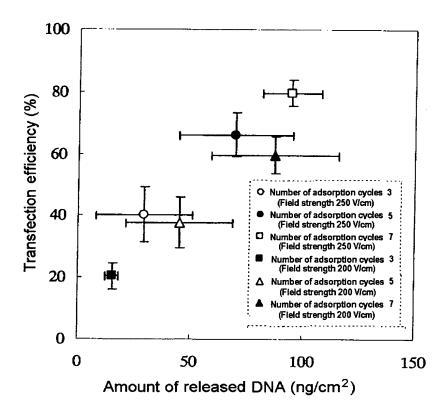
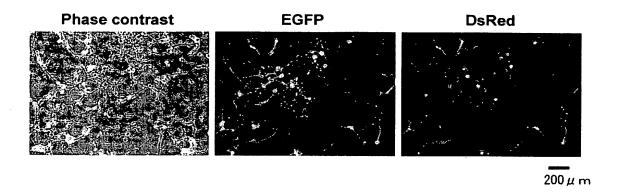
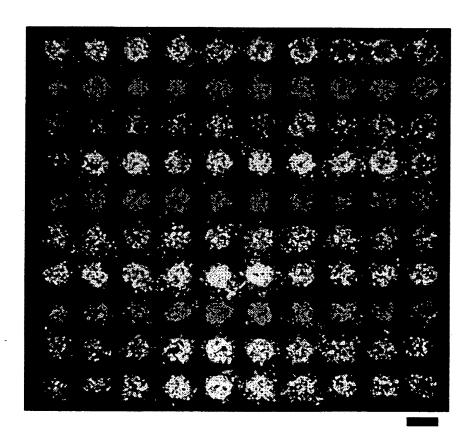


Fig. 21



5

Fig. 22



1 mm

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